

## 6 Recovery Tips and Techniques

For each subsystem, what dependencies exist during system or server startup? For instance, if Ingest is cold-started, then granules could be stored twice. If a server is bounced, what other actions need to be taken (e.g., bouncing other servers or checking data consistency)?

### 6.1 *Ingest*

If any Ingest server is cold started, then all of the Ingest servers need to be cold started.

- **What is the correct way to shut the system down without losing requests? In what order should servers be shut down?**

Wait until all requests have been processed before shutting down. For example, could shut down Polling once it has gotten all of the PDRs in its Polling directory and sent them to Request Manager. Would have to wait to shut down Granule Server and Request Manager until all of those requests have finished being processed.

### 6.2 *PDPS*

The PLS subscription manager currently has no shutdown dependencies.

### 6.3 *Science Data Server*

There are not dependencies on order for startup of the SDSRV and HDF EOS Server.

- **What is the correct way to shut the system down without losing requests? In what order should servers be shut down?**

If you shut down the SDSRV, you should shut down the HDF EOS Servers.

### 6.4 *IDM*

For successful start up IDM requires that MSS is up and running.  
For successful operation, IDM requires SDSRV to be running.

### 6.5 *Storage Management*

While there are no specific dependencies, there is a “most efficient” way to start STMGT. Bring Staging Monitor up first, followed by Staging Disk, then all other STMGT servers. The reason this is more efficient is that Staging Disk checks for user1 in the Staging Area, which is created by Staging Monitor at startup. Also, most STMGT servers send a restart notification to the Staging Disk Server, so if that server is not up, the servers will retry for up to 5 minutes. This can introduce puzzling startup delays if you are not aware of the communications going on.

- **What is the correct way to shut the system down without losing requests? In what order should servers be shut down?**

For STMGT, there is no specific order. I would recommend bringing Archive Server down first, since that effectively shuts off the flow of requests to Staging Monitor.

## **6.6 Data Distribution**

It will come up quicker if started after STMGT.

- **What is the correct way to shut the system down without losing requests? In what order should servers be shut down?**

Doesn't matter.

## **6.7 IDG**

Subscription Operator GUI should be started after SBSRV. IOS ADSRV should be started before SBSRV. There are no dependencies on IDG application gateways.

- **What is the correct way to shut the system down without losing requests? In what order should servers be shut down?**

There is no decent way to shut down SBSRV when it is processing data or hanging so far. But after subscription persistent queuing is deployed in 5B, we can guarantee data persistency and consistency for trigger requests. There is no order to shutdown of the application gateways.

## **6.8 MSS**

No information provided.